

TO			INITIALS	DATE	REMARKS
DIRECTOR	3	AC	3/23		<p>1-3</p> <p><u>For Your Information</u></p> <p>With concern mounting over the introduction of new Soviet weapons in Egypt, John & Sandy decided to pull together a paper spelling out the options for various kinds of readout... in the event a special collection effort is mounted. This has been given to [] for his planning purposes</p>
DEP/DIRECTOR					
EXEC/DIRECTOR					
SPECIAL ASST	1	M	3/6		
ASST TO DIR	2	MAC	3/6		
HISTORIAN					
7H	4				
CH/PPBS					
DEP CH/PPBS					
EO/PPBS					
CH/IEG					
DEP CH/IEG					
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CH/TSSG					
DEP CH/TSSG					
EO/TSSG					
CH/SSD/TSSG					
PERSONNEL					
LOGISTICS					
TRAINING					
RECORDS MGT					
SECURITY					
FINANCE					
DIR/IAS/DDI					
H/DIAXX-4					
H/DIAAP-9					
H/SPAD					

FM 30 (12-69) - OBSOLETE PREVIOUS EDITIONS

Declass Review by NIMA/DOD

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JH has seen [redacted] for [redacted]
 sent to [redacted] with note that it is to be
 updated and/or refined (JH is
 reworking the recommendations) -
 Copy sent to [redacted] requesting
 ① note any errors ② use as basis to
 provide any updates to 6th floor & NRE have
 sent DGVP to [redacted] and/or etc etc
 ③ Copy sent to WL & SS for info
 & retention noting the above

(DATE)
 3-4-76

FORM NO 101
 1 AUG 54

REPLACES FORM 10-101
 WHICH MAY BE USED.

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SUBJECT: Existing Processing and Exploitation Capabilities Related to
Acquisition of Middle East Photo Coverage by the U2-R or SR-71

ASSUMPTIONS AND TERMS

1. We assume that coverage of the Middle East will be acquired with either the SR-71 cameras, or the U2-R 111B (H) or IRIS II camera systems using black and white film.

2. For the purpose of this memo conventional processing is defined as the single gamma spray processing currently available at all processing sites mentioned. Dual gamma viscous processing is considered to be unconventional processing since it involves special equipment and trained personnel presently available [redacted] Dual gamma viscous processing, however, would be the best way to process all aircraft photography acquired in the Middle East since it provides optimum quality by assisting in compensating for over-exposure conditions.

3. This memo gives primary consideration to collection by one flight in a one-time crisis effort. For continual photo coverage over a long period of time, statements are included in the covering recommendations.

4. The preparation of major processing sites by various Government Agencies for optimum processing, reproduction and exploitation of photo products is an on-going effort, and therefore the information provided herein is subject to change. (e.g. NRO is now shipping dual gamma processing equipment [redacted])

GROUP 1
Excluded from automatic
downgrading and
declassification

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5. NPIC can provide support in all facets of reproduction and exploitation if needed and requested. In any case, the original negative would be sent on to the U.S. for further reproduction and exploitation.

ALTERNATIVES

Several alternatives are available for effective processing, reproduction and exploitation of special mission products. Listed below are the existing processing and exploitation sites along with their major advantages and disadvantages.*

A. Aircraft Carrier - U2-R Only - Process and exploit film on an aircraft carrier: The OSA assures the Community that the capability for landing a U2-R aircraft on a carrier would be available. The main advantage would be rapid exploitation of imagery.

Disadvantages include:

1. Conventional processing of the original negative would be under field conditions with equipment and personnel that are not checked out for this type of U2-R effort, and which have never processed original negatives from the 111B, IRIS II cameras. Dual gamma processing would require modifications to existing equipment or use of special "fly-away kits," and training of personnel.

*See attached table.

TOP SECRET

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2. PI's, PI equipment and collateral on the designated aircraft carrier would have to be evaluated prior to the first mission flight, and might have to be supplemented.

by whom?

B. [] U2-R or SR-71 with flight terminating in Europe and readout beginning within three-to-six hours.

1. Advantages include:

a. [] has proven its capability for conventional processing of original negatives in a recent [] exercise** involving three missions.

b. [] has a TKI facility staffed with at least 20 PI's, and can draw on the USAEUR for additional PI's (some originally from NPIC).

c. PI equipment and collateral are available, with collateral especially oriented toward Russian equipment readout. EXSUBCOM is taking action to provide COMIREX exploitation target lists to the []

2. Disadvantage: [] has never processed original negatives from the 111B, IRIS II cameras and the SR-71 cameras.

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D. [] - U2-R and SR-71 with readout beginning within nine-to-eighteen hours if flight terminates in Europe, or three-to-six hours if flight terminates in U.S.

1. Advantages include:


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a. [] capability for dual gamma viscous processing has been proven.

b. If a crisis type readout is desired, NPIC PI's and their collateral could leave for the site when it was known that the mission was successful. Readout could be begun at NPIC within a few hours after processing of the film []

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c. Good reproductions could be provided almost simultaneously with the processing of the original negatives. 25X1


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d. Complete photo science support (in the form of providing special enlargements, density cuts and special contrast transparencies, etc.) would be available to the PI's.

2. Disadvantages include: Bad weather could delay flight traffic involving film shipments.

E. SPPF Westover AFB - U2-R and SR-71 with readout beginning within nine-to-eighteen hours after flight terminates in Europe or three-to-six hours if flight terminates in U.S.

1. Advantages include:

a. PI's, equipment and collateral could be sent to the processing site if crisis type readout is required when it is known the mission was successful. Readout could be done at NPIC within a few hours after the film is processed at SPPF.

b. SPPF has proved its capability for conventional processing of original negative material.

c. Reproduction of material could begin almost simultaneously with arrival of the original negative.

d. Some photo science support could be made available to PI's sent to Westover.

2. Disadvantages include:

a. Bad weather could delay flight traffic involving film shipments.

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b. SPPF has very limited PI equipment available at this time.

c. SPPF has never processed original negatives from the 111B, IRIS II cameras and the SR-71 cameras.

F. [] U2-R and SR-71 with readout beginning nine-to-eighteen hours after flight terminates in Europe or three-to-six hours if flight terminates in U.S.

1. Advantages include:

a. [] has proven that it can conventionally process the original negatives from both 111B and IRIS II cameras, and could handle the SR-71 film.

b. PI's, their equipment and some collateral are at the [] facility. NPIC could provide support as needed and requested. Quick reproductions can be made available to NPIC within two-to-three hours after original negative processing is complete at []

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SUMMARY AND RECOMMENDATIONS

1. The purpose of special aircraft photo reconnaissance of Egypt would be to increase our chances of detecting -- at an early date -- any Soviet delivery and deployment to Egypt of additional types of weapons systems. For that purpose, the quality of the photography as obtained and processed could be a critical input to the photo interpreter's ability to identify and distinguish between subtle shapes and dimensions such as of crates, differing versions of a given type of military aircraft, and relatively small missile systems.

2. Given the choice, the photo interpreter should be provided with the best quality film possible for the purpose. The best quality readout will be obtained through processing the film [] and conducting 25X1 the interpretation at NPIC. The disadvantage could be the time this course would take -- some three to eighteen hours from the time of photography to the beginning of the readout depending on the place of flight termination.

3. If time is too critical to permit that course to be taken, then the best alternative way to serve the purpose would be to process and exploit the film at [] The disadvantages to this course include less than the best processing quality, less than the best exploitation conditions, and the probability that any significant finds must be verified by moving the relevant film to Washington for confirmation readout.

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ATTACHMENT to:

Site	Conventional ON Processing	Dual Gamma Viscous Processing	PIs Available	PIs Equipment Available	PI Collateral Available	Reproduction Capability	Photo Science Support	Reaction Time after Flt Terminates	Comments
Aircraft Carrier	yes	no*	yes	yes	yes	Very limited	no	Minutes	Selected carrier should be checked prior to flight to determine specific quali- ty of capabili- ties. NPIC support could be provided if needed and re- quired.
	yes	no*	yes	yes	yes	Limited	no	3-6 hrs.	*A fly-away kit may be provided for dual gamma processing; however, person- nel training would be re- quired.
									*Dual gamma viscous processing will be available in a few months.

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Site	Conventional ON Processing	Dual Gamma Viscous Processing	PIs Available	PIs Equipment Available	PI Collateral Available	Reproduction Capability	Photo Science Support	Reaction Time After Flt Terminates	Comments
	yes	no	yes	yes	yes	Limited	no	3-6 hrs.	
	yes	yes	no*	yes	no**	Extensive	yes	9-18 hrs.	*NPIC PIs would have time to be in place when film arrives.
									**PIs would have to bring their collateral.
SPPF (Westover)	yes	no*	no**	yes***	no**	Extensive	yes	9-18 hrs.	*DGV processing will be available shortly.

**PIs and collateral would have time to be emplaced prior to arrival of film.

***PIs could use film handling table and scopes available at site.

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Site	Conventional ON Processing	Dual Gamma Viscous Processing	PIs Available	PIs Equipment Available	PI Collateral Available	Reproduction Capability	Photo Science Support	Reaction Time After Flt Terminates	Comments
	yes	no	yes*	yes*	yes*	Extensive	no**	9-18 hrs.	*NPIC support (i.e., PIs, equipment, and collateral) could be avail- able in a matter of minutes if needed and requested. **Photo Science Support could be conducted at NPIC.
9th Strategic Recon Wing Beale AFB	yes	no	yes	yes	yes	Extensive	no	9-18hrs.	

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